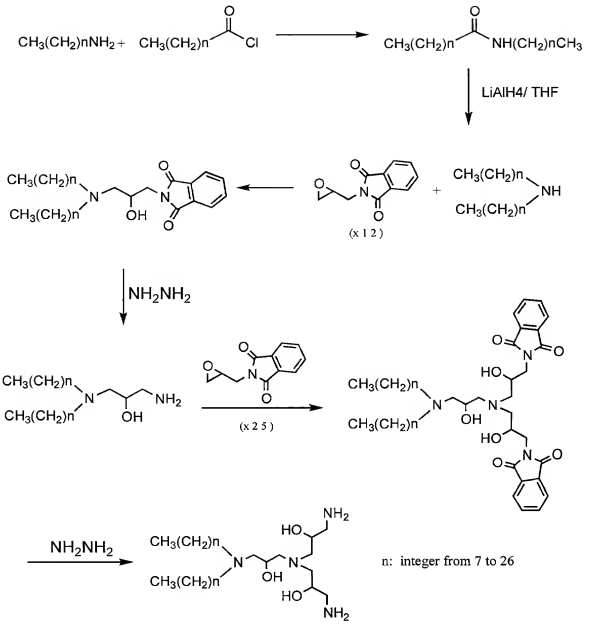
CH3(CH2)nNH2 +
CH3(CH2)n
Cl
CH3(CH2)n
NH(CH2)nCH3
LiAlH4/ THF
CH3(CH2)n
CH3(CH2)n
N
OH
(x 1 2)
+
CH3(CH2)n
CH3(CH2)n
NH
NH2NH2
NH2
(x 2 5)
HO
NH2NH2
n: integer from 7 to 26

FIG. 1A

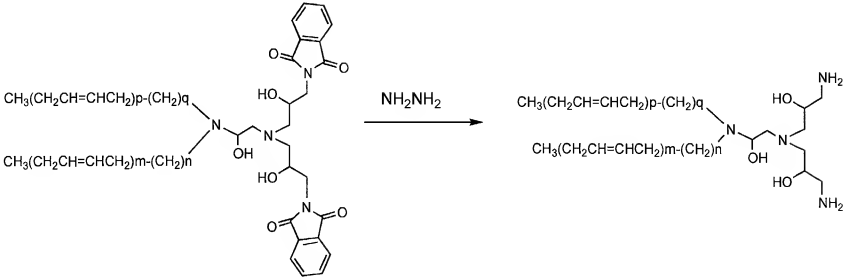
CH3(CH2CH=CHCH2)p-(CH2)q
CH3(CH2CH=CHCH2)m-(CH2)n
N
OH
HO
O
NH2NH2
NH2

FIG. 1B

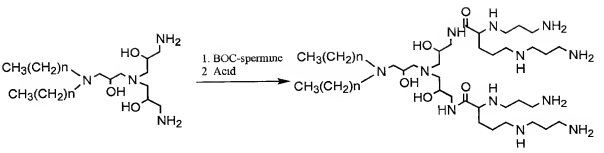

FIG. 2A

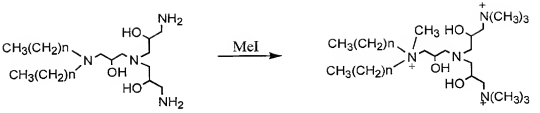

FIG. 2B

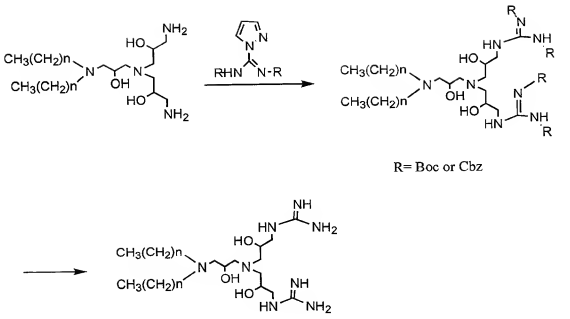

FIG. 2C

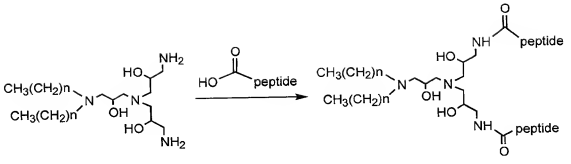

FIG. 2D

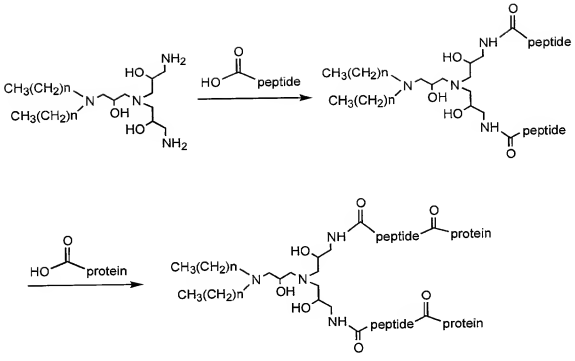

FIG. 2E

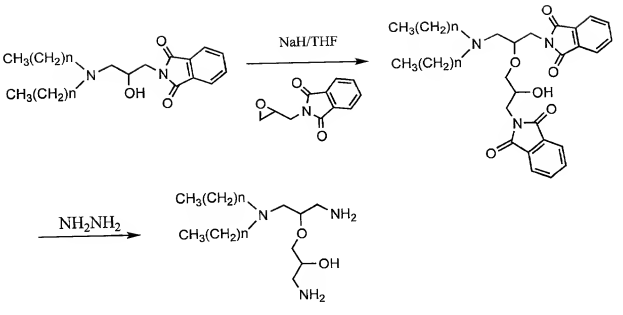

FIG. 3

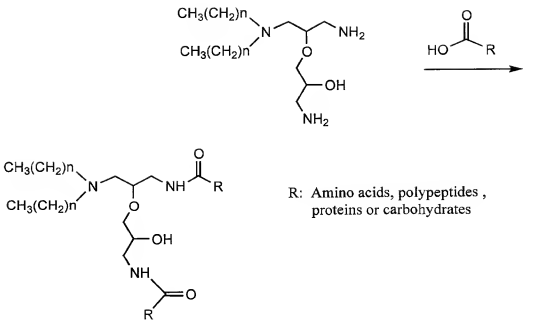
CH3(CH2)n
N
CH3(CH2)n
NH2
O
OH
NH2
HO
O
R
CH3(CH2)n
N
CH3(CH2)n
NH
O
R
O
OH
NH
O
R
R: Amino acids, polypeptides , proteins or carbohydrates

FIG. 4A

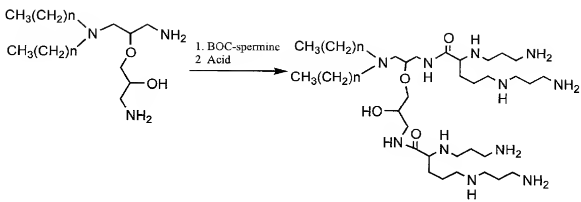

FIG. 4B

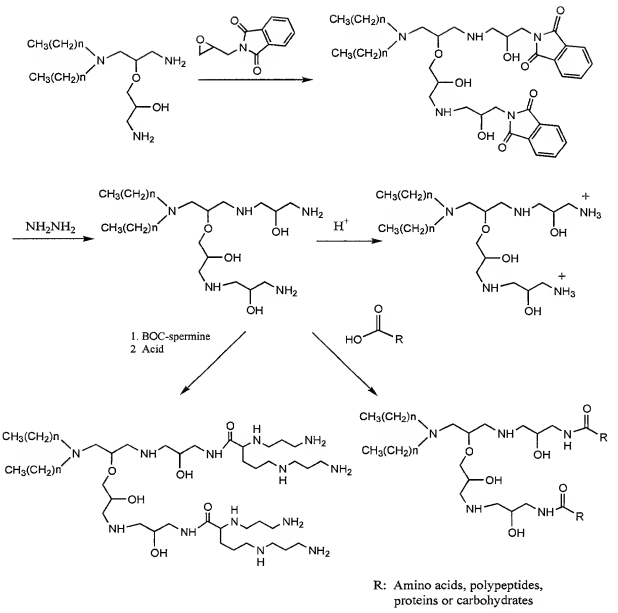

FIG. 4C

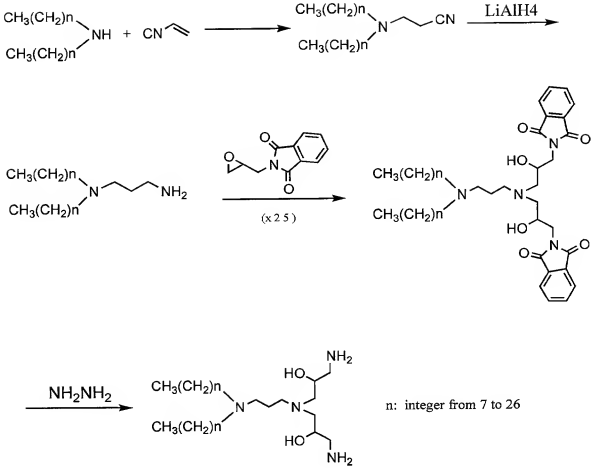
CH3(CH2)n
NH
CH3(CH2)n
+ CN
CH3(CH2)n
N
CN
CH3(CH2)n
LiAlH4
NH2
(x 2 5)
HO
NH2
NH2NH2
n: integer from 7 to 26

FIG. 5

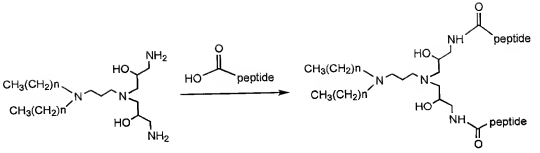

FIG. 6A

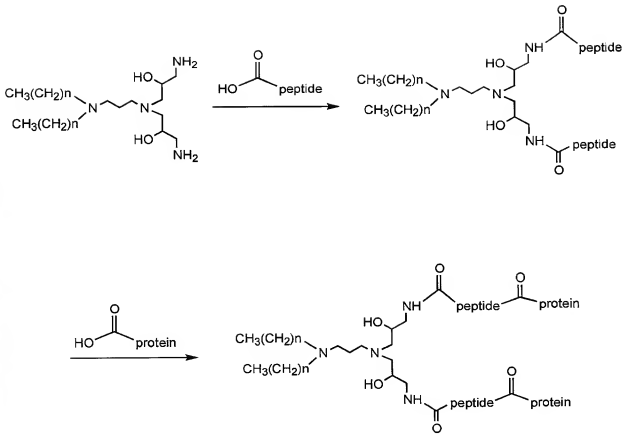
CH3(CH2)n
CH3(CH2)n
N
N
HO
NH2
HO
NH2
HO
peptide
NH
peptide
HO
NH
peptide
HO
protein
NH
peptide
protein

FIG. 6B

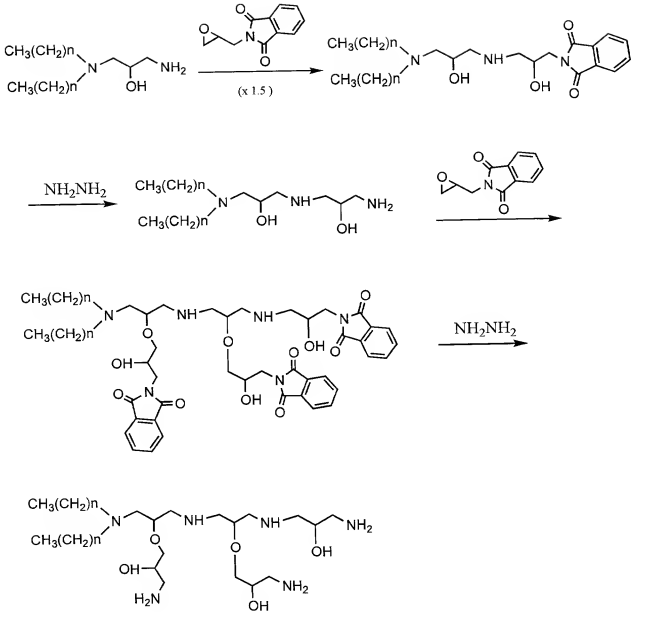

FIG. 7A

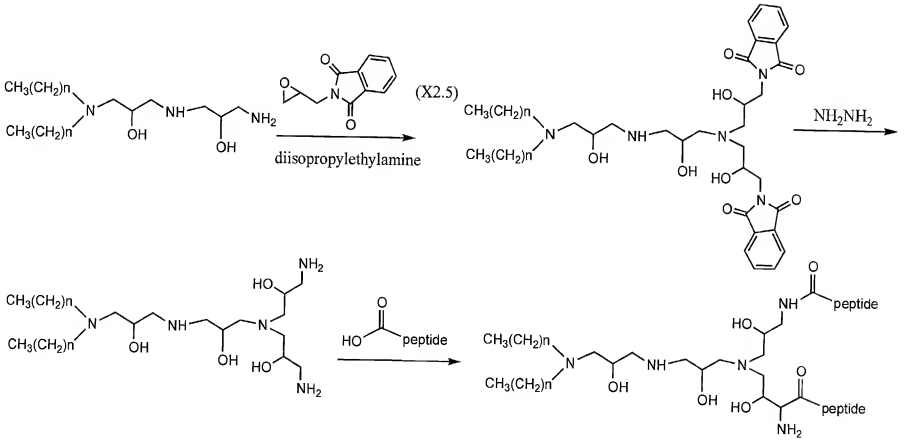
CH3(CH2)n
CH3(CH2)n
N
NH
NH2
OH
OH
O
O
N
O
diisopropylethylamine
(X2.5)
HO
NH2NH2
peptide
NH

FIG. 7B

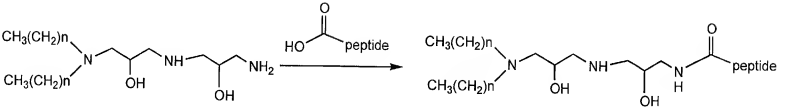
CH3(CH2)n
CH3(CH2)n
N
OH
NH
OH
NH2
O
HO
peptide
CH3(CH2)n
CH3(CH2)n
N
OH
NH
OH
N
H
O
peptide

FIG. 7C

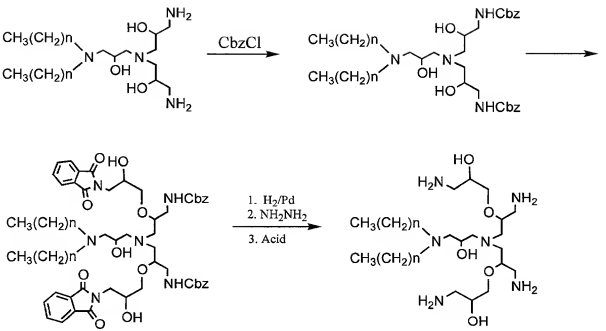

FIG. 8

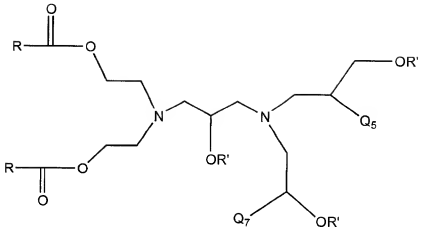

FIG. 9A

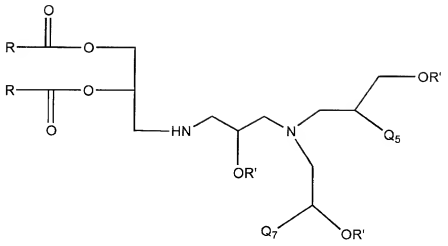

FIG. 9B

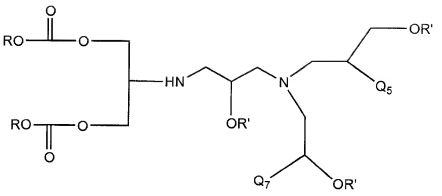

FIG. 9C

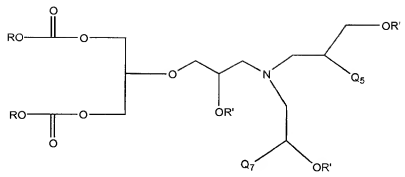

FIG. 9D

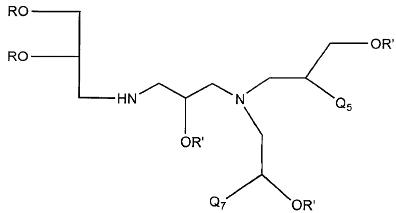

FIG. 9E

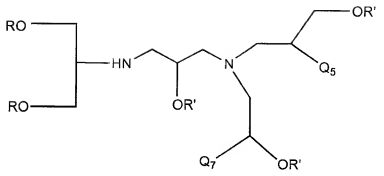

FIG. 9F

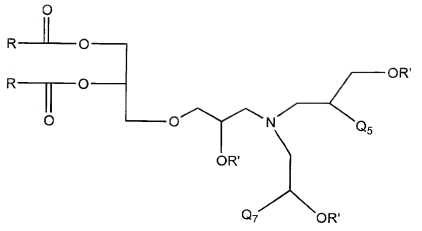

FIG. 9G

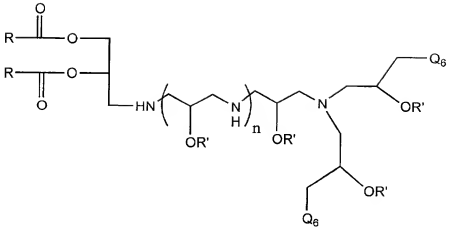

FIG. 10A

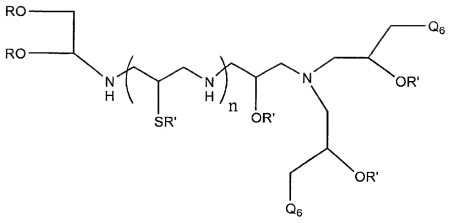

FIG. 10B

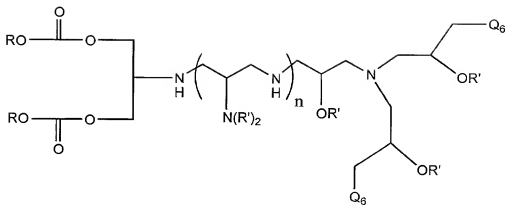

FIG. 10C

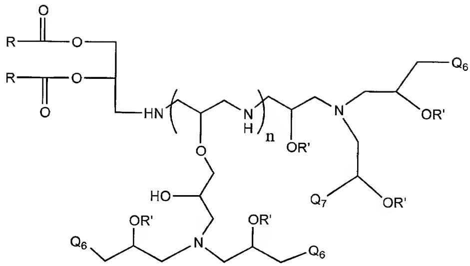

FIG. 11